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AMENDMENTS TO THE CLAIMS/LISTING OF CLAIMS

No claim is amended. This listing of claims will replace all prior versions, and listings, of claims in the application.

1-22. Canceled.

- 23. (Previously presented) A method of treating obesity in a human subject comprising administering to said subject an amount of a composition comprising an amylin or amylin agonist effective to treat obesity in said human subject, wherein the amount of the amylin or amylin agonist administered in said composition is about 0.01 mg to about 5 mg per day, wherein said composition is not administered in conjunction with another obesity relief agent, and wherein said human subject is in need of treatment for obesity.
- 24. (Previously presented) The method according to claim 23 wherein said amylin agonist is an amylin agonist analogue.
- 25. (Withdrawn) A method according to claim 24 wherein said amylin agonist analogue is selected from the group consisting of ^{25,28,29}Pro-h-amylin (SEQ ID NO:12), ¹⁸Arg^{25,28,29}Pro-human-amylin (SEQ ID NO:10), and ¹⁸Arg^{25,28}Pro-h-amylin (SEQ ID NO:8).
- 26. (Withdrawn) A method according to claim 24 wherein said amylin agonist analogue is ^{25,28,29}Pro-h-amylin (SEO ID NO:12).
- (Previously presented) The method according to claim 23 wherein said composition is administered subcutaneously.
- (Withdrawn) A method according to claim 26 wherein said amylin agonist analogue is administered subcutaneously.
- (Previously presented) The method according to claim 23 wherein said composition is administered from 1 to 4 times per day.

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Canceled.

 (Previously presented) The method according to claim 23 wherein said composition is administered before a meal.

- 32. (Previously presented) The method according to claim 23 wherein said composition is administered within about 15 minutes of a meal
- 33. (Previously presented) A method of treating obesity in a human subject, said method consisting of administering to said subject an amount of a composition effective to treat obesity in said human subject, said composition comprising an obesity relief agent consisting of an amylin or an amylin agonist and a pharmaceutically acceptable carrier, wherein the amount of said amylin or amylin agonist administered in said composition is about 0.01 mg to about 5 mg per day, and wherein said human subject is in need of treatment for obesity.
- 34. (Previously presented) The method according to claim 33 wherein said amylin agonist is an amylin agonist analogue.
- 35. (Withdrawn) A method according to claim 34 wherein said amylin agonist analogue is selected from the group consisting of ^{25,28,29}Pro-h-amylin (SEQ ID NO:12), ¹⁸Arg^{25,28,29}Pro-h-amylin (SEQ ID NO:10) and ¹⁸Arg^{25,28}Pro-h-amylin (SEQ ID NO:8).
- 36. (Withdrawn) A method according to claim 34 wherein said amylin agonist analogue is 25,28,29 Pro-h-amylin (SEQ ID NO:12).
- 37. (Previously presented) The method according to claim 33 wherein said composition is administered subcutaneously.
- 38. (Previously presented) The method according to claim 33 wherein said composition is administered from 1 to 4 times per day.
- (Previously presented) The method according to claim 33 wherein said composition is administered before a meal.

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40-67. Canceled.

68. (Previously presented) The method according to claim 24, wherein the amylin agonist analogue comprises an amino acid sequence of:

$$^{1}A_{1}-X-Asn-Thr^{-5}Ala-Thr-Y-Ala-Thr^{10}Gln-Arg-Leu-B_{1}-Asn-^{15}Phe-Leu-C_{1}-D_{1}-E_{1}^{-10}F_{1}-G_{1}-Asn-H_{1}-Gly-^{25}Pro-I_{1}-Leu-Pro-J_{1}-^{30}Thr-K_{1}-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z (SEQ ID NO:14)$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr;

C1 is Val, Leu or Ile;

D₁ is His or Arg:

E₁ is Ser or Thr:

F₁ is Ser. Thr. Gln or Asn:

G₁ is Asn. Gln or His:

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu

J1 is Ser, Pro or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is an amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Pro, and K_1 is Asn; then one or more A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

 (Withdrawn) The method according to claim 24, wherein the amylin agonist analogue comprises an amino acid sequence of (SEO ID NO:15):

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 $^1A_1-X-Asn-Thr^{-5}Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phe-Leu-C_1-D_1-E_1-^{20}-F_1-G_1-Asn-H_1-Gly-^{25}Pro-I_1-Leu-J_1-Pro-^{30}Thr-K_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B₁ is Ala, Ser or Thr;

C₁ is Val. Leu or Ile:

D1 is His or Arg;

E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tvr;

I1 is Ile, Val, Ala or Leu:

J1 is Ser, Pro, Leu, Ile or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided than when

 A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Pro and K_1 is Asn; or

 A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is His, E_1 is Ser, F_1 is Asn, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Ser and K_1 is Asn;

then one or more of A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

70. (Withdrawn) The method according to claim 24, wherein the amylin agonist analogue comprises an amino acid sequence of (SEO ID NO:16):

 $^{1}A_{1}\text{-}X\text{-}Asn\text{-}Thr\text{-}^{5}Ala\text{-}Thr\text{-}Y\text{-}Ala\text{-}Thr\text{-}^{10}Gln\text{-}Arg\text{-}Leu\text{-}B_{1}\text{-}Asn\text{-}^{15}Phe\text{-}Leu\text{-}C_{1}\text{-}D_{1}\text{-}E_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}Asn\text{-}^{15}Phe\text{-}Leu\text{-}C_{1}\text{-}D_{1}\text{-}E_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}Asn\text{-}^{15}Phe\text{-}Leu\text{-}C_{1}\text{-}D_{1}\text{-}E_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{-}^{20}F_{1}\text{-}He^{-}B_{1}\text{-}^{20}F_{1}\text{$

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 $G_1-Asn-H_1-Gly-{}^{25}I_1-J_1-Leu-Pro-Pro-{}^{30}Thr-K_1-Val-Gly-Ser-{}^{35}Asn-Thr-Tyr-Z$ wherein

A1 is Lys, Ala, Ser or hydrogen;

B₁ is Ala, Ser or Thr:

C1 is Val. Leu or Ile:

D₁ is His or Arg;

E₁ is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tvr;

I1 is Ala or Pro:

J₁ is Ile, Val, Ala or Leu;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a laetam or a thioether linkage; and Z is amino, alkylamino dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, E_1 is Ser, E_1 is Ser, E_1 is Ser, E_1 is Asn E_1 is Leu, E_1 is Pro, E_1 is Pro, E_1 is Asn; then one or more of E_1 to E_1 is a D-amino acid and E_2 is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkylamino, a

 (Withdrawn) The method according to claim 24, wherein the amylin agonist analogue comprises an amino acid sequence of (SEQ ID NO:17):

$$^{1}A_{1}-X-Asn-Thr.^{5}Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_{1}-Asn-^{15}Phe-Leu-C_{1}-D_{1}-E_{1}^{20}F_{1}-G_{1}-Asn-H_{1}-Gly-^{25}Pro-I_{1}-Leu-Pro-Pro-^{30}Thr-J_{1}-Val-Gly-Ser-^{25}Asn-Thr-Tyr-Z$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

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B₁ is Ala, Ser or Thr:

C₁ is Val, Leu or Ile;

D₁ is His or Arg;

E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu;

J1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and

provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val and J_1 is Asn; then one or more of A_1 to J_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

72. (Previously presented) The method according to claim 34, wherein the amylin agonist analogue comprises an amino acid sequence of:

$$^1A_1\text{-X-Asn-Thr-}^5Ala\text{-Thr-Y-Ala-Thr}^{10}\text{Gln-Arg-Leu-B}_1\text{-Asn-}^{15}\text{Phe-Leu-C}_1\text{-D}_1\text{-E}_1\text{-}^{10}\text{F}_1\text{-G}_1\text{-Asn-H}_1\text{-Gly-}^{25}\text{Pro-I}_1\text{-Leu-Pro-J}_1\text{-}^{30}\text{Thr-K}_1\text{-Val-Gly-Ser-}^{35}\text{Asn-Thr-Tyr-Z} \text{ (SEQ ID NO:14)}$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr;

C1 is Val, Leu or Ile;

D₁ is His or Arg;

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E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu

J1 is Ser, Pro or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is an amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Pro, and K_1 is Asn; then one or more A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

73. (Withdrawn) The method according to claim 34, wherein the amylin agonist analogue comprises an amino acid sequence of (SEQ ID NO:15):

$$^1A_1-X-Asn-Thr-^5Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phe-Leu-C_1-D_1-E_1-^{20}-F_1-G_1-Asn-H_1-Gly-^{25}Pro-I_1-Leu-J_1-Pro-^{30}Thr-K_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$$

wherein

A1 is Lvs, Ala, Ser or hydrogen:

B₁ is Ala, Ser or Thr:

C1 is Val. Leu or Ile:

D₁ is His or Arg;

E1 is Ser or Thr;

F₁ is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His:

H₁ is Phe, Leu or Tyr;

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I1 is Ile, Val, Ala or Leu;

J₁ is Ser, Pro, Leu, Ile or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided than when

- (a) A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Pro and K_1 is Asn; or
- (b) A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is His, E_1 is Ser, F_1 is Asn, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Ser and K_1 is Asn;

then one or more of A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

74. (Withdrawn) The method according to claim 34, wherein the amylin agonist analogue comprises an amino acid sequence of (SEQ ID NO:16):

$$^1A_1-X-Asn-Thr-^5Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phe-Leu-C_1-D_1-E_1-^{20}F_1-G_1-Asn-H_1-Gly-^{25}I_1-J_1-Leu-Pro-Pro-^{30}Thr-K_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$$

wherein

A₁ is Lys, Ala, Ser or hydrogen;

B₁ is Ala, Ser or Thr;

C1 is Val. Leu or Ile:

D₁ is His or Arg;

E1 is Ser or Thr;

F₁ is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

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H₁ is Phe, Leu or Tyr;

I1 is Ala or Pro;

J₁ is Ile, Val, Ala or Leu;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, E_1 is Se

75. (Withdrawn) The method according to claim 34, wherein the amylin agonist analogue comprises an amino acid sequence of (SEQ ID NO:17):

$$^1A_1-X-Asn-Thr-^5Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phe-Leu-C_1-D_1-E_1^{20}F_1-G_1-Asn-H_1-Gly-^{25}Pro-I_1-Leu-Pro-Pro-^{30}Thr-J_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr;

C₁ is Val, Leu or Ile;

D₁ is His or Arg:

E₁ is Ser or Thr;

F₁ is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tvr;

I₁ is Ile, Val, Ala or Leu;

J₁ is Asn, Asp or Gln;

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X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and

provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val and J_1 is Asn; then one or more of A_1 to J_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy.

76. (Previously presented) A method of treating obesity in a human subject comprising administering to said subject an amount of a composition effective to treat obesity in said human subject, wherein said human subject is in need of treatment for obesity, said composition comprising a peptide having an amino acid sequence of:

1
A₁-X-Asn-Thr- 5 Ala-Thr-Y-Ala-Thr 10 Gln-Arg-Leu-B₁-Asn- 15 Phe-Leu-C₁-D₁-E₁- 10 F₁-G₁-Asn-H₁-Gly- 25 Pro-I₁-Leu-Pro-J₁- 30 Thr-K₁-Val-Gly-Ser- 35 Asn-Thr-Tyr-Z (SEQ ID NO:14)

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr;

C1 is Val, Leu or Ile;

D₁ is His or Arg;

E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His:

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu

J₁ is Ser, Pro or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is an amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, I_2 is Pro, and K_1 is Asn; then one or more A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy, wherein said amount is effective to treat obesity and wherein said composition is not administered in conjunction with another obesity relief agent.

77. (Withdrawn) A method of treating obesity in a human subject comprising administering to said subject an amount of a composition comprising a peptide having an amino acid sequence of (SEQ ID NO:15):

$$^{1}A_{1}\text{-X-Asn-Thr-}^{5}Ala\text{-Thr-Y-Ala-Thr-}^{10}Gln\text{-Arg-Leu-}B_{1}\text{-Asn-}^{15}Phe\text{-Leu-}C_{1}\text{-}D_{1}\text{-}E_{1}\text{-}^{20}\text{-}F_{1}\text{-}G_{1}\text{-}Asn-}^{15}Phe\text{-Leu-}C_{1}\text{-}D_{1}\text{-}E_{1}\text{-}^{20}\text{-}F_{1}\text{-}G_{1}\text{-}Ser-}^{30}\text{-}G_{1}\text{-}Ser-}^{30}\text{-}G_{1}\text{-}Ser-}^{30}\text{-}G_{1}\text{-}Ser-}^{30}\text{-}G_{1}\text{$$

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr;

C1 is Val, Leu or Ile;

D₁ is His or Arg;

E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn;

G1 is Asn, Gln or His;

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu;

J1 is Ser, Pro, Leu, Ile or Thr;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically

bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thiocther linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided than when

- (a) A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Pro and K_1 is Asn; or
- (b) A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is His, E_1 is Ser, F_1 is Asn, G_1 is Asn, H_1 is Leu, I_1 is Val, J_1 is Scr and K_1 is Asn;

then one or more of A_1 to K_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy and with the proviso that the composition does not contain a cholecystokinin or a cholecystokinin agonist.

78. (Withdrawn) A method of treating obesity in a human subject comprising administering to said subject an amount of a composition comprising a peptide having an amino acid sequence of (SEO ID NO:16):

$$^1A_1-X-Asn-Thr-^5Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phe-Leu-C_1-D_1-E_1-^{20}F_1-G_1-Asn-H_1-Gly-^{25}I_1-J_1-Leu-Pro-Pro-^{30}Thr-K_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Ser or Thr:

C₁ is Val, Leu or Ile:

D₁ is His or Arg;

E₁ is Ser or Thr:

F₁ is Ser, Thr, Gln or Asn;

G₁ is Asn, Gln or His;

H₁ is Phe, Leu or Tyr;

I1 is Ala or Pro;

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 J_1 is Ilc, Val, Ala or Leu;

K1 is Asn, Asp or Gln;

X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage, wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and provided that when A₁ is Lys, B₁ is Ala, C₁ is Val, D₁ is Arg, E₁ is Ser, F₁ is Ser, G₁ is Asn H₁ is Leu, I₁ is Pro, J₁ is Val and K₁ is Asn; then one or more of A₁ to K₁ is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy and with the proviso that the composition does not contain a cholecystokinin or a cholecystokinin agonist.

79. (Withdrawn) A method of treating obesity in a human subject comprising administering to said subject an amount of a composition comprising a peptide having an amino acid sequence of (SEQ ID NO:17):

$$^1A_1-X-Asn-Thr-^5Ala-Thr-Y-Ala-Thr-^{10}Gln-Arg-Leu-B_1-Asn-^{15}Phc-Leu-C_1-D_1-E_1^{20}F_1-G_1-Asn-H_1-Gly-^{25}Pro-I_1-Leu-Pro-Pro-^{30}Thr-J_1-Val-Gly-Ser-^{35}Asn-Thr-Tyr-Z$$

wherein

A1 is Lys, Ala, Ser or hydrogen;

B1 is Ala, Scr or Thr;

C1 is Val, Leu or Ile;

D₁ is His or Arg;

E1 is Ser or Thr;

F1 is Ser, Thr, Gln or Asn:

G₁ is Asn, Gln or His;

H₁ is Phe, Leu or Tyr;

I1 is Ile, Val, Ala or Leu;

J1 is Asn, Asp or Gln;

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X and Y are independently selected residues having side chains which are chemically bonded to each other to form an intramolecular linkage wherein said intramolecular linkage comprises a disulfide bond, a lactam or a thioether linkage; and Z is amino, alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy; and

provided that when A_1 is Lys, B_1 is Ala, C_1 is Val, D_1 is Arg, E_1 is Ser, F_1 is Ser, G_1 is Asn, H_1 is Leu, I_1 is Val and I_1 is Asn; then one or more of A_1 to I_1 is a D-amino acid and Z is selected from the group consisting of alkylamino, dialkylamino, cycloalkylamino, arylamino, aralkylamino, alkyloxy, aryloxy or aralkyloxy and with the proviso that the composition does not contain a cholecystokinin or a cholecystokinin agonist.

- 80. (Previously presented) The method according to claim 23 wherein the amount of the amylin or amylin agonist administered is from about 30 ug/dose to about 300 ug/dose.
 - 81. Canceled.
- 82. (Previously presented) The method according to claim 33 wherein said amylin or amylin agonist is administered at a dose from about 30 µg/dose to about 300 µg/dose.
 - 83. Canceled.
- 84. (Previously presented) The method according to claim 76 wherein said peptide is administered at a dose from about 30 μg/dose to about 300 μg/dose.
- 85. (Withdrawn) The method according to claim 77 wherein said peptide is administered from about 1 to 4 times a day at an amount of about 0.0025 mg/dose to about 5 mg/dose.
- 86. (Withdrawn) The method according to claim 77 wherein said peptide is administered at a dose from about 30 µg/dose to about 300 µg/dose.
- 87. (Withdrawn) The method according to claim 78 wherein said peptide is administered from about 1 to 4 times a day at an amount of about 0.0025 mg/dose to about 5 mg/dose.

- 88. (Withdrawn) The method according to claim 78 wherein said peptide is administered at a dose from about 30 ug/dose to about 300 ug/dose.
- 89. (Withdrawn) The method according to claim 79 wherein said peptide is administered from about 1 to 4 times a day at an amount of about 0.0025 mg/dose to about 5 mg/dose.
- 90. (Withdrawn) The method according to claim 79 wherein said peptide is administered at a dose from about 30 µg/dose to about 300 µg/dose.
- (Withdrawn) The method according to claim 76 wherein said peptide is ^{25,28,29}Pro-hamylin (SEQ ID NO:12).
- (Withdrawn) The method according to claim 77 wherein said peptide is ^{25,28,29}Pro-hamylin (SEQ ID NO:12).
- (Withdrawn) The method according to claim 78 wherein said peptide is ^{25,28,29}Pro-hamylin (SEQ ID NO:12).
- (Withdrawn) The method according to claim 79 wherein said peptide is ^{25,28,29}Pro-hamylin (SEQ ID NO:12).
- 95. (Previously presented) The method according to claim 23 wherein said subject has a body mass index of at least 27.0 kg/m².
- 96. (Previously presented) The method according to claim 33 wherein said subject has a body mass index of at least 27.0 kg/m².
- 97. (Previously presented) The method according to claim 76 wherein said subject has a body mass index of at least 27.0 kg/m^2 .